National Park Service Pacific West Region Green Janitorial Products & Practices

| PRODUCT GUIDE | | | | | | | | |
|-----------------|---|------------------|---------------------------|-----------------------|------------|---|---|--|
| CATEGORY | PRODUCT NAME | VENDOR STOCK# | GSA STOCK# | UNIT | * PRICE | VENDOR | USER/ REFERENCE | |
| AIR FRESHENER | Air Scense Orange scent | AIROR712 | | Case 12 EA | \$37.80 | | FOVA | |
| | Natural Air Freshener biodegradable | N-4 | | 4x1 Gallon Case | \$115.10 | Clean Environment Co (402) 464-0988 Don Eby | Yellowstone NP (307) 344-2311 Jim Evanoff | |
| BATHROOM & | Basin, Tub & Tile all bathroom surfaces | | (GSA goes through vendor) | 4x1 Gallon | Vendor | Clean Environment Co (402) 464-0988 | Green Seal, JP4** YELL , Jim Evanoff | |
| TOILET CLEANERS | biodegradable | N-7 | N7 | Case | \$50.16 | ` ' | (307) 344-2311 | |
| | Basin, Tub and Tile Cleaner | | | 4x1 | Retail | Naturally Yours | JP4**,YOSE, YELL | |
| | biodegradable | | | Gallon | \$18.00 | (417) 889-3995 | City of | |
| | non-toxic | NY4 | | Case | per Gal | Liz Kane | Santa Monica | |
| | Bath and Tile Cleaner | | | | | Ecolink/The Leaf | JP4** | |
| | Biodegradable | | | 4x1 | | Project Products | | |
| | | 1101-1 | | Gallon | 005.00 | (800) 886-8240 Hollie Rust | | |
| | Clinging Toilet Bowl Cleaner | 1101-1 | | Case 12x1 | \$35.80 | Clean Environment Co | JP4** | |
| | biodegradable | | | Quart | | (402) 464-0988 | MORA, CHIS | |
| | blodegradable | N-8 | | Case | \$51.16 | ` _' | JOTR, PRES | |
| | Clinging Toilet Bowl Cleaner | | | 4x1 | Retail | Naturally Yours | JP4**,YOSE, YELL | |
| | biodegradable | | | Gallon | \$21.00 | (417) 889-3995 | City of | |
| | non-toxic | NY7 | | Case | per Gal | Liz Kane | Santa Monica | |
| | Enviro-Care Washroom and | | | 4x1 | | Rochester Midland | JP4**, Green Seal, | |
| | Fixture Cleaner | | | Gallon | \$13.39 | (716) 336-2308 | Cape Cod NS, (see | |
| | biodegradable, non-hazardous | 12002027 | | Case | per Gal | www.greenerparks.com | greenerparks website) | |
| | Super Orange Cleaner | highly | | 5 | | Clean Environment Co | | |
| | hard surfaces, floors, walls | concentrated | | Gallon | | (402) 464-0988 | (307) 344-2311 | |
| | biodegradable | N-46 | | Pail | \$52.92 | Don Eby | Jim Evanoff | |

| | | VENDOR | GSA | | * | | USER/ |
|-----------------|------------------------------------|--------------|-----------------|--------|---------|--|-------------------|
| CATEGORY | PRODUCT NAME | STOCK# | STOCK# | UNIT | PRICE | VENDOR | REFERENCE |
| | | | | | | | |
| DISINFECTANTS | Cycle Disinfectant | highly | | 4x1 | | Clean Environment Co | Yellowstone NP |
| | primarily for bathrooms | concentrated | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | non-toxic, non-carcinogenic | C-128 | | Case | \$65.12 | | Jim Evanoff |
| | Enviro-Care Neutral | | | 4x1 | | Rochester Midland | Cape Cod NS |
| | Disinfectant | | | Gallon | \$10.41 | (716) 336-2308 | Marconi Site |
| | floral/citrus fragrance | 12001227 | | Case | per Gal | www.greenerparks.com | Green Seal, JP4** |
| | Simple Green-D | | | | | Sunshine Makers, Inc. | FOVA |
| | biodegradable, non-toxic, | | 7930-01- | PA | | (800) 228-0709 HQ | |
| | non-flammable | | 347-0490 | 5 GL | \$41.41 | \ / | |
| | Cycle Emulsifier | | | 4x1 | | Clean Environment Co | |
| FLOOR & | for carpet extraction | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| CARPET CLEANERS | | C-23 | | Case | \$37.22 | | Jim Evanoff |
| | Cycle Finish | | | 5 | | Clean Environment Co | |
| | floor finish (wax) | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | non-toxic, non-carcinogenic | C-12 | | Pail | \$86.84 | , | Jim Evanoff |
| | Institutional Carpet Cleaner | | 15128 | 6x1 | | Sunshine Makers, Inc. | FOVA |
| | biodegradable, non-toxic, | | No NSN # | Gallon | | (800) 228-0709 HQ | |
| | non-flammable, non-ionic | | yet. | Case | \$53.04 | (650) 794-2645 CA | |
| | Cycle Strip | | | | | | FOVA |
| | floor finish stripper | | | 5 | | Clean Environment Co | |
| | non-toxic, non-carcinogenic | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | no heavy metals | C-8 | | Pail | \$51.24 | , and the second | Jim Evanoff |
| | Enzyme Stain Treatment | | (GSA goes | 4x1 | | Clean Environment Co | |
| | spot treating carpets with | | through vendor) | Gallon | Vendor | (402) 464-0988 | (307) 344-2311 |
| | organic stains (food, blood, etc.) | N-17 | N17 | Case | \$44.82 | , | Jim Evanoff |
| | Ecomate-MPC | | | | | SOQ Environmental | Green Seal |
| | biodegradable, non-toxic, no | | | ۵. | | Technology | |
| | VOCs, no petrolium distillates | | MPC-5 | GA | \$62.67 | ` , | |
| | Neutro-Jel 110C Floor Cleaner | | | | | Selig Chemical | FOVA |
| | biodegradable, citrus scent, no | | 7930-01- | | | Industries | |
| | hazardous chemicals | | 381-5870 | CN | \$57.60 | (404) 691-9220 | |

| | | VENDOD | | | * | | 11077 |
|----------|--------------------------------|--------------|-----------------|--------|-----------|----------------------|------------------------|
| CATECORY | PROPUST NAME | VENDOR | GSA | | DDIOE | VENDOD | USER/ |
| CATEGORY | PRODUCT NAME | STOCK# | STOCK# | UNIT | PRICE | VENDOR | REFERENCE |
| OFNEDAL | 0040 All Diverses Olesian | | | | | DOL of America | 0 |
| GENERAL | 9010 All Purpose Cleaner | | | | | PCI of America, | Green Seal |
| PURPOSE | (Hurrisafe) | | 7930-01- | | | Hurrisafe Products | |
| CLEANERS | biodegradable, non-caustic | | 398-0891 | Box | \$52.84 | (800) 222-1455 | 15 (##) (0.05) (51 I |
| | All Purpose Cleaner | | | 4x1 | Retail | Naturally Yours | JP4**,YOSE, YELL |
| | biodegradable, non-toxic | 10.00 | | Gallon | \$21.00 | (417) 889-3995 | Green Seal, City |
| | | NY2 | | Case | per Gal | Liz Kane | of Santa Monica |
| | All Purpose Cleaner | highly | (GSA goes | 5 | | Clean Environment Co | - |
| | (See also Super Orange N-46) | concentrated | through vendor) | Gallon | Vendor | (402) 464-0988 | MORA, CHIS |
| | biodegradable | N-1 | N1 | Pail | \$40.57 | Don Eby | JOTR, PRES |
| | Bio Pro | | | | | Biosystems, Inc. | |
| | cleaner/degreaser | | | | | (970) 224-4605 | |
| | biodegradable | | BP05 | CN | \$83.40 | (970) 224-5502 | |
| | Citrikleen | | | 6 | | West Penetone, | |
| | biodegradable | | 7930-01- | Gallon | | Penetone Corporation | |
| | cleaner/degreaser | | 350-7034 | Pail | \$81.00 | (800) 631-1652 | |
| | Citrikleen-HD | | | 6 | | West Penetone, | |
| | heavy duty cleaner/degreaser | | 7930-01- | Gallon | | Penetone Corporation | |
| | multi-metal, biodegradable | | 329-7434 | Pail | \$101.22 | (800) 631-1652 | |
| | Citra-Solv Cleaner/Degreaser | | CCS1284 | 4x1 | | Citra-Solv, Inc. | FOVA |
| | biodegradable | | No NSN # | Gallon | | (203) 778-0881 | Green Seal |
| | | | yet. | Case | \$51.76 | min order \$100.00 | |
| | Cleaner Degreaser | | | 4x1 | Retail | Naturally Yours | JP4**,YOSE, YELL |
| | biodegradable, non-toxic | | | Gallon | \$21.00 | (417) 889-3995 | City of |
| | | NY3 | | Case | per Gal | Liz Kane | Santa Monica |
| | Cycle-Cid | | | 4x1 | | Clean Environment Co | Yellowstone NP |
| | lime and scale remover for | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | occasional heavy duty use | C-4 | | Case | \$47.99 |) Don Eby | ` Jim Evanoff |
| | Easy Job | | | 5 | | American Cleaning | |
| | biodegradable | | | Gallon | | Solutions, Inc. | |
| | | | EJ-00505 | Pail | \$51.00 | (888) 821-2698 | |
| | Enviro-Care All Purpose | | | 4x1 | , | Rochester Midland | Cape Cod NS |
| | biodegradable, non-toxic, | | | Gallon | \$7.06 | (716) 336-2308 | Marconi Site |
| | pH = 7.0 | 11822027 | | Case | per Gal | www.greenerparks.com | Green Seal, JP4** |
| | Enviro-Care Tough Job | | | 4x1 | ps. 541 | Rochester Midland | Cape Cod NS |
| | biodegradable, non-toxic, | | | Gallon | \$12.86 | (716) 336-2309 | Marconi Site |
| | citrus-based cleaner/degreaser | 12001827 | | Case | per Gal | www.greenerparks.com | Green Seal |
| | citius-based cleaner/degreaser | 12001021 | | Case | per Gal | www.greenerparks.com | Gieeli Seai |

| | | VENDOR | GSA | | * | | USER/ |
|-----------------------|--------------------------------|--------------|-----------------|--------|----------|-------------------------|-----------------------|
| CATEGORY | PRODUCT NAME | STOCK# | STOCK# | UNIT | PRICE | VENDOR | REFERENCE |
| | | | | | | | |
| GENERAL | Formula G-510 | | | 30 | | Gaylord Industries | Green Seal |
| PURPOSE | biodegradable, non-butyl, | | 7930-01- | Gallon | | (800) 547-9696 | |
| CLEANERS | non-caustic, safe on metals | | 380-8361 | Drum | \$217.14 | | |
| CONTINUED | Heavy Duty Degrease | | (GSA goes | 4x1 | | Clean Environment Co | , |
| | (Cycle Degrease, C-2, for shop | | through vendor) | Gallon | Vendor | (402) 464-0988 | (307) 344-2311 |
| | and equipment applications) | N-14 | N14 | Case | \$41.56 | , | Jim Evanoff |
| | Power Green Cleaner | | | 6 | | National Industries for | FOVA |
| | biodegradable, non-hazardous | | 7930-01- | Gallon | | the Blind | |
| | non-toxic, non-flammable | | 373-8848 | Box | \$70.21 | , | |
| | Sun-Brite | highly | (GSA goes | 1 | | Sun-Brite Corporation | |
| | cleaner/degreaser | concentrated | through vendor) | Gallon | GSA | (208) 342-8842 | |
| | biodegradable | | "GALLON" | Bucket | \$39.90 | | |
| | Tuff Job | | | 5 | | American Cleaning | |
| | biodegradable | | | Gallon | | Solutions, Inc. | |
| | | | TJ-00505 | Pail | \$36.13 | (888) 821-2698 | |
| | Enviro-Care Glass Cleaner | | | 4x1 | | Rochester Midland | Cape Cod NS |
| GLASS CLEANERS | biodegradable, non-toxic, | | | Gallon | \$7.17 | (716) 336-2308 | Marconi Site (see |
| | non-hazardous | 12001027 | | Case | per Gal | www.greenerparks.com | greenerparks website) |
| | Glass and Hard Surface | | | | | Ecolink/The Leaf | JP4** |
| | Cleaner | | | 4x1 | | Project Products | |
| | Biodegradable | | | Gallon | | (800) 886-8240 | |
| | | 1099-1 | | Case | \$27.80 | | |
| | Glass and Window Cleaner | | | 4x1 | Retail | Naturally Yours | JP4**,YOSE, YELL |
| | biodegradable | | | Gallon | \$15.00 | (417) 889-3995 | City of |
| | | NY6 | | Case | per Gal | Liz Kane | Santa Monica |
| | Gosh Glass Cleaner | | | 24 | | Selig Chemical | FOVA |
| | lemon scent, biodegradable | | 7930-01- | Quart | | Industries | |
| | | | 381-5918 | Box | \$92.25 | , | |
| | Natural Glass and Window | highly | (GSA goes | 4x1 | | Clean Environment Co | , |
| | Cleaner | concentrated | through vendor) | Gallon | Vendor | (402) 464-0988 | (307) 344-2311 |
| | biodegradable | N-13 | N13 | Case | \$37.73 | , | Jim Evanoff |
| POLISHES & | Furniture Protector & Polish | | | 4x1 | | Clean Environment Co | , |
| PROTECTANTS | for hard surfaces, not raw | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | wood, water based, high sheen | N-11 | | Case | \$76.73 | Don Eby | Jim Evanoff |

| CATEGORY | PRODUCT NAME | VENDOR STOCK# | GSA STOCK# | UNIT | * PRICE | VENDOR | USER/ REFERENCE |
|---------------------|-------------------------------------|------------------|---------------|-----------|------------|------------------------------|-------------------------------|
| CATEGORI | I ROBOCI NAME | 3100K# | 3100K# | ONIT | TRIOL | VENDOR | REI ERENOE |
| PAPER TOWELS | Multi-Fold Recyc. Paper Towels | | | Вох | | GSA Advantage or | FOVA |
| | CPG ITEM: 40-60% pc, 40-100 re | | 8540-00- | 4400 | | Environmental | - |
| | 40% pcc, dispenser use; 9 1/4" wide | | 291-0389 | EA | \$21.84 | Products Guide | |
| | 11 Gallon Recycled Plastic Bag | | | | | GSA Advantage or | FOVA |
| PLASTIC BAGS | CPG ITEM: 10-100% pc | | 8105-01- | Box | | Environmental | |
| | 25% pcc | | 174-0944 | 500 EA | \$9.11 | Products Guide | |
| | 33 Gallon Recycled Plastic Bag | | | | | | |
| | CPG ITEM: 10-100% pc | | | | | National Industries for | FOVA |
| | 100% recycled; brown | | 8105-01- | Case | | the Blind | |
| | or variable sizes | | 386-2323 | 100 EA | \$23.76 | | |
| | 58 Gallon Recycled Plastic Bag | | | | | GSA Advantage or | FOVA |
| | CPG ITEM: 10-100% pc | | 8105-01- | Box | | Environmental | |
| | 25% pcc | | 221-3237 | 250 EA | \$24.76 | Products Guide | |
| | ReSource Biodegradable/ | | GSA | bags | | Biocorp, Inc. | |
| | Recyclable Trash Bags | | contract | variable | | (888) 206-5658 | |
| | CPG ITEM: 10-100% pc | | GS-2F-0002J | sizes | | Bill Chua | |
| | Toilet Tissue | | | _ | | National Industries for | FOVA |
| TOILET TISSUE | CPG ITEM: 20-60% pc, 20-100 re | | 8540-00- | Box | | the Blind | |
| | 30% pcc material | | 530-3770 | 96 EA | \$45.61 | (877) 438-5963 | |
| | 90 Deluxe 3-Ply Wiping Tissue | | | Box | | National Industries for | FOVA |
| OTHER | | | 7920-00- | 1350 | | the Blind | |
| | Overfitti De verene | | 965-1709 | Count | \$41.75 | (877) 438-5963 | ID 4++ \/FL I |
| | Graffiti Remover | | | 12x1 | | Clean Environment Co | JP4**, YELL |
| | non-toxic, non-carcinogenic | 0.54 | | Quart | 0405.40 | (402) 464-0988 | (307) 344-2311 |
| | non-mutagenic | C-54 | | Case 5 | \$105.16 | Don Eby Clean Environment Co | Jim Evanoff Yellowstone NP |
| | Hand Soap | | | Gallon | | (402) 464-0988 | (307) 344-2311 |
| | biodegradable | N-12 | | Pail | \$66.97 | Don Eby | Jim Evanoff |
| | Oil Out | IN-12 | | T all | φ00.97 | Golden Products, Inc. | JIII LVAIIOII |
| | Biodegradable, non-flammable | | | | | (440) 248-3463 | |
| | pH = 7 | | 1-1510 | вх | \$119.83 | (440) 240-0400 | |
| | Pure Castile Soap | | 1 1010 | 5 | Ψ110.00 | Citra-Solv, Inc. | FOVA |
| | Liquid hand soap, vanilla scent | | | Gallon | | (203) 778-0881 | |
| | | CASVAN500 | | Pail | \$67.50 | min order \$100.00 | |
| | Scotch-Brite Wool Soap Pads | | | | , , , , | 3M | FOVA |
| | Scouring, grease cutting, | | 7930-01- | Box | | http://www.3M.com | |
| | 100% recycled | | 393-6753 | 168 EA | \$35.83 | · | |

Vendor information is given so they may be contacted for further product inquiry (recommended). All products listed with an NSN, or GSA ordering information are available through GSA Advantage.

Vendors for Hawaii:

GSA Advantage

(877) 472-3777 Customer Svc. (800) 525-8027 Call-in orders (800) 856-7057 FAX orders Product availability and pricing same as on mainland. Shipping costs may vary if an "origin" order, shipped by vendor.

Rochester Midland authorized distributor Lamers Enterprises Inc.

251 Puuhale Road Honolulu, HI 96819 (808) 845-9365 Phone (808) 845-5592 FAX

Wesley Nakamura
Reference Gerry Allgeier from
Rochester Midland's Northwest
Customer Service Center

Simple Green Pacific 500 Ala Kawa Street, #216F Honolulu, HI 96817 (808) 842-4411 Phone

(808) 847-7222 FAX

Vendor Websites:

American Cleaning Solutions, Inc.

www.americancleaning.com

Biocorp, Inc.

www.biocorpusa.com

Citra-Solv, Inc.

www.citrasolv.com

The Clean

Environment Co.

www.greencities.net

Ecolink

www.ecolink.com

GSA Advantage

www.gsaadvantage.gov

Javits-Wagner-O'Day

www.jwod.com

Golden Products, Inc.

www.oilout.com

PCI of America,

Hurrisafe Products

www.hurrisafe.com

Quick 'N Brite, Inc. www.quicknbrite.com

Rochester Midland

www.greenerparks.com

SOQ Environmental

Technology

www.soqenvironmental.com

Selig Chemical Industries

www.seligchem.com

Sun-Brite Corp.

www.sunbritecorp.com

Sunshine Makers, Inc.

www.simplegreen.com

3M

www.3M.com

Zep Manufacturing

www.zep.com



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^{*} Prices were current as of July 27, 2001. **Prices are listed only as general guidelines.** Some products are highly concentrated; they may appear more expensive, but mix into larger quantities. Vendors may have discounts and free samples available that are not noted in this document. **It is best to call the vendor directly** to get accurate information particular to each park's needs.

^{**} Noted on the Environmentally Preferable Janitorial Products Vendor and Product List, compiled by the Janitorial Products Pollution Prevention Project (JP4). JP4 is sponsored by US EPA. State of California. Santa Clara County. the City of Richmond. and the Local Government Commission. See http://www.westp2net.org/Janitorial/ip4.htm

National Park Service Pacific West Region Green Janitorial Products & Practices

RECOMMENDED PRACTICES

INTRODUCTION:

The idea behind using most janitorial products is to make places *clean* – not caustic, corrosive, contaminated, and costly. Many cleaning products on the market contain hazardous chemicals, use unnecessary dyes and fragrances, and have cumulative negative effects on the environment and its inhabitants. That includes us.

To promote the safety of employees using cleaning products, other staff, the public, and the living systems around us, parks such as Cape Cod NS, Yellowstone NP, Fort Vancouver NHS, and communities such as the City of Santa Monica, have reassessed their cleaning practices and products. These projects have not only produced positive effects within the parks and the community, but they have also provided great examples for other parks, the public, and this guide to follow.

By taking steps toward more environmentally responsible procurement, we can save money, help prevent pollution, and respect the health of our cleaning staff. This guide gives an introduction to the many things that can be done by parks and individuals to promote a cleaner, healthier environment – both indoors and outdoors. It is a summary of information from reliable sources on green procurement and janitorial practices. Such sources include Green Seal, the Janitorial Products Pollution Prevention Project (JP4), and DOI/NISH's *Greening the Janitorial Business* workshop binder. (For additional references, please see the list of sources and links at the end of this document.). This Guide is a beginning source of information, one that can be built upon with more comprehensive documents, courses, in-depth reading, and first-hand experience.

The practices recommended below provide ideas on how to contribute to the great strides being made in supporting the National Park Service Mission. They are also in keeping with the following federal requirements:

Comprehensive Procurement Guidelines (CPG)

Through Section 6002 of the Resources Conservation and Recovery Act (RCRA) and EO 13101, the EPA was required to designate recycled-content products and to recommend practices for federal agencies to buy these products. The EPA developed the CPG program to provide such guidance, and to ensure that federal agencies, by purchasing environmentally preferable products, promote markets and jobs to produce such products. Procuring agencies are required to purchase designated items, and to purchase them with the highest recovered material content practicable. Many janitorial supplies are designated products, and are required to meet CPG standards.

http://www.epa.gov/cpg

Executive Order 13101 Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition, 1998

Federal procurement officers are required to consider environmental factors in their purchasing and contracting, with the guidance of the EPA's Environmentally Preferable Purchasing (EPP) program.

http://www.epa.gov/opptintr/epp/docback.htm

Federal Acquisition Regulation (FAR), August 2000

Executive agencies are required by Section 23.703 of the FAR to consider environmental factors when purchasing products and services. Agencies must:

- maximize the use of environmentally preferable products and services
- maximize the use of energy-efficient products
- eliminate or reduce the generation of hazardous waste
- promote the use of non-hazardous and recovered materials
- realize lifecycle cost savings
- promote cost-effective waste reduction
- consider the use of biobased products

http://www.arnet.gov/far

RECOMMENDATIONS:

- Initiate park programs that promote the analysis of current products and practices, that include and train the staff using cleaning products, and that have full support and input from all levels of park personnel.
- > To better ensure the success of a switchover, seek out employees that are "natural champions" at the grass roots level. This will reinforce efforts with support from the bottom-up (Evanoff 7-9-01).
- > Obtain concessioner buy-in early in the process, so they can parallel implementation procedures with the park (Evanoff).
- > Set up a review committee made up of a cross-section of disciplines. This group will examine any new or additional products after the switchover is complete. They will examine all aspects of new products (MSDS, cost, meets all criteria, etc.) before approval for park-wide use (Evanoff).
- > Train and educate staff on proper storage, mixing, and use of products. Learn efficient cleaning methods and don't assume knowledge of how to use new products. Emphasize safety, and that mixing products at higher concentrations is not more effective, just wasteful and potentially hazardous.
- > Provide mixing stations in several locations to reduce product waste and encourage proper dilution.
- > Set strict criteria for product selection (i.e., City of Santa Monica and Yellowstone NP).
- > Purchase cleaning products with the following characteristics (based on Green Seal standards):
 - come in concentrated form
 - biodegradable
 - not in aerosol cans
 - no toxic ingredients (no carcinogens or hazardous wastes)/non-toxic to human or aquatic life
 - packaged in recyclable/reusable container (minimal waste)
 - are not petroleum based or petrochemical compounds

- produce minimal or no irritation to skin, eyes, respiratory system (VOC levels less than 10 % by weight when diluted for use)
- avoid unnecessary dyes and fragrances
- are not corrosive or highly flammable
- have a pH level between 2.5 and 12
- work optimally in room temperature water
- contain none of the chemicals on the JP4 website or the reference list in this guide
- > Look for recycled products with the following characteristics:
 - do not use de-inking solvents containing chlorine or other chemicals listed in the Emergency Preparedness and Community Right-to-Know Act; do not use (chlorine) bleach (such as for paper and tissue products)
 - avoid unnecessary dyes, inks, or fragrances
 - contain highest post-consumer recycled content possible

Eliminate the use of products containing chemicals hazardous to the environment and/or to those using the products. For an up-to-date listing and rating of hazardous chemicals, see the information provided by the Janitorial Products Pollution Prevention Project at http://www.westp2net.org/janitorial/tools/riskevaluation.htm.

Following is a beginning reference list of undesirable or hazardous chemicals, or chemicals considered severe pollutants:

- Acetone
- Ammonia
- Ammonia Hydroxide
- Ammonium Hydroxide
- Ammonia Salt of Nonylphenoxy Polyethanol
- Arsenic
- 2 Butoxyethanol
- Butyl Cellosolve
- Cadmium
- *Caustic Soda
- Chlorine/Chlorine Bleach
- Chromium
- Diethylene Glycol Ether environmental
- Dimethyl Carbbinol
- Dodecyl Benzene Sulfonate
- Ethanol
- Ethylene Diamine Tetraacetic Acid (EDTA)
- Ethoxylated Alcohols
- Glycol Ethers
- Hydrocarbon Solvent environmental
- Hydrochloric Acid (Muriatic Acid)
- Isopropyl Alcohol
- Lead
- Mercury
- Mineral (Seal) Oils (Teratogen)
- Naphthalene

- Nickel
- Nitrilotriacetic Acid (NTA)
- Perchloroethylene
- Phenolic Compounds
- Phosphates and Derivatives
- Phosphoric Acid
- Polyethoxy Ethanol
- Polyethylene Glycol environmental
- Polyoxyethylene Monooctylphenyl Ether
- Potassium Hydroxide
- Propane Napntha
- Selenium
- Sodium Dodecybenzene Sulfonate
- Sodium Hydroxide*
- Sodium Hypochlorite / Hypochloric Acid
- Sodium Phosphate
- Sodium Sulfate
- Sodium Tripolyphosphate
- Sodium Xylene Sulfonate
- Synthetic Dye
- Synthetic Fragrance
- Terpene
- Tetrachloroethylene
- 1,1,1 Trichloroethane
- Toluene
- Xylene
- Learn how to read and use Material Safety Data Sheets (MSDS), and know their limitations (they may not contain all ingredient information that companies consider proprietary information).

- Eliminate combined cleaner/disinfectant products, and use disinfectants only when and where necessary. This includes:
 - knowing what organisms the park is really trying to reduce/disinfect against
 (Disinfectants are formulated to target certain organisms or combination of organisms. It is important to use the right product for the right place.)
 - knowing what surfaces do (or do not) need to be disinfected, and how often
 - cleaning surfaces thoroughly *before* disinfecting (Disinfectants can only be effective through contact. A layer of surface grime is likely to prevent sufficient contact.)
 - using proper disinfectant mixing and cleaning procedures
 (This includes leaving disinfectants in place for the correct amount of time before wiping surfaces clean.)
- > Ensure proper disposal of hazardous materials and their empty containers.
- Follow and set good examples. Provide public education signs so visitors are aware of the important things the National Park Service is doing.
- > Monitor how your program is going, address concerns, and make adjustments or updates.
- ➤ Where applicable, strive to involve gateway communities, local governments, and private businesses in the expansion of your efforts. This may be easier than you think (Evanoff 7-9-01).
- > Continuously search for ways to improve health, safety, effectiveness, and environmental responsibility.

LINKS & SOURCES:

ASTM, see Standard E—1971—98 "Guide for Stewardship for the Cleaning of Commercial and Institutional Buildings" http://www.astm.org/

The City of Santa Monica's Environmental Purchasing, A Case Study

http://www.epa.gov/opptintr/epp/pdfs/santa.pdf

EPA Office of Pollution Prevention and Toxics

http://www.epa.gov/opptintr

GSA Advantage

http://www.gsaadvantage.gov

GSA Environmental

http://pub.fss.gsa.gov/environ

Green Seal

http://www.greenseal.org

Janitorial Products Pollution Prevention Project

http://www.westp2net.org/Janitorial/jp4.htm

- Barron, Thomas, Carol Berg, and Linda Bookman. "Environmentally Preferable Janitorial Products, Vendor and Product List."

 <u>Janitorial Products Pollution Prevention Project.</u> Revised 8 November 1999.
- Barron, Thomas, Carol Berg, and Linda Bookman. "Safe & Effective Disinfecting." <u>Janitorial Products Pollution Prevention Project.</u>

 June 1999. http://www.westp2net.org/Janitorial/factsheets/disinfectant.htm July 2001.
- Evanoff, Jim. "The Clean Environment Co., Inc., Products Used in Yellowstone Park." FAX to PWR Solid Waste Coordinator. 06 April 1999.
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- Global Environmental Options. *Draft Northeast Parks Procurement Guide*. E-mailed copy to PWR Solid Waste Coordinator. 1999.
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- United States. Dept. of the Interior, NISH. <u>Greening the Janitorial Business.</u> Workshop reference manual, June 2001, San Francisco. Washington: GPO, 2001.
- - - . <u>Greening the Janitorial Business, How to Select and Use Safe Janitorial Chemicals.</u> Workshop binder, June 2001, San Francisco. Washington: GPO, 2001.
- - -. Environmental Protection Agency, Office of Pollution Prevention and Toxics. EPA742-R-98-001. The City of Santa Monica's Environmental Purchasing, A Case Study. Washington: GPO, 1998. 31 pp. http://www.epa.gov/opptintr/epp/pdfs/santa.pdf
 July, 2001.